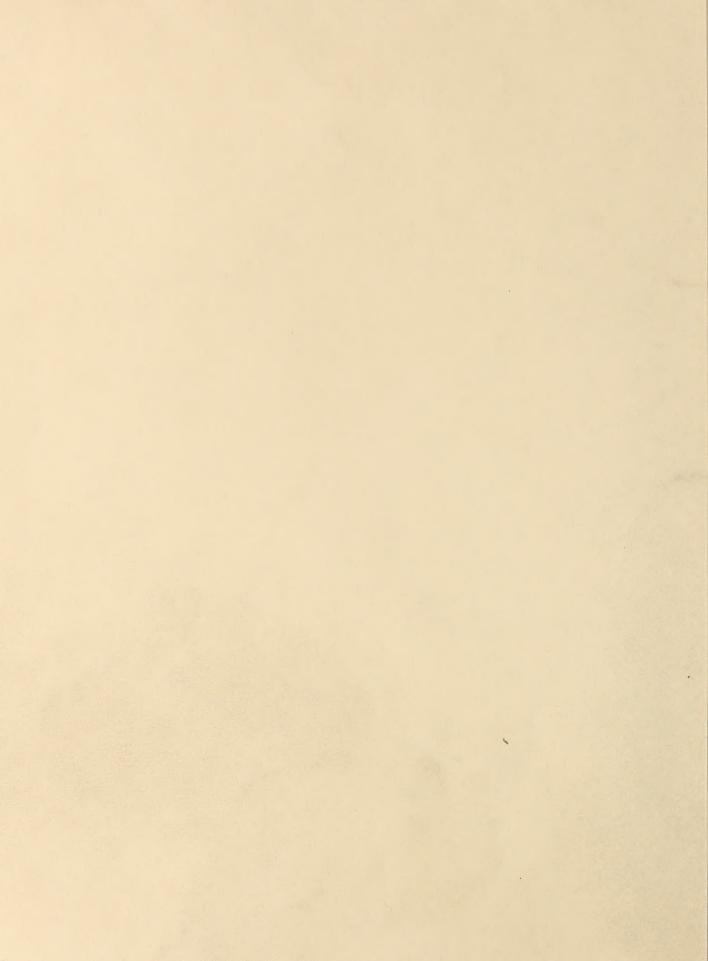
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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

for the

COLORADO, RIO GRANDE, MISSOURI

and

ARKANSAS DRAINAGE BASINS

February 1, 1941

Issued by the
United States Department of Agriculture
Soil Conservation Service
Division of Irrigation
In Cooperation with
The Colorado Agricultural Experiment Station
Colorado State College
Fort Collins, Colorado

February 10, 1941

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FOR MONTANA, COLORADO, WYOMING, NEW MEXICO AND ARIZONA SNOW SURVEYS AND IRRIGATION WATER FORECASTS

of Reclamation, and U. S. Indian Service, This work is otherwise conducted cooperatively with the State Engineers State departments, other Federal bureaus and local organizations. The snow measurements are made principally by of Wyoming, Colorado, and New Mexico, State Experiment Stations, and various municipalities, irrigation associafield personnel of the following organizations: U. S. Forest Service, U. S. National Park Service, U.S. Bureau Division of Irrigation, Soil Conservation Service, of the U. S. Department of Agriculture, in cooperation with The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by the tions, power companies and others. Precipitation records are supplied by the U. S. Weather Bureau.

precipitation in the eastern and central division of the state was below normal during the winter, snow cover in The water supply outlook in Montana is considerably better than it was last year at this time and, although the mountains is greater than it was last year.

JEFFERSON RIVER. The average water content of the snow on the three courses on the watershed of the Jefferson River was 6.3 inches on February 1 and 4.3 inches last year at this time. The average for the last five years is

On the Madison River watershed six courses had an average water content of 10.7 inches MADISON RIVER.

February 1 this year and 5.8 inches a year ago while the five-year average is 10.5 inches.

Three courses on the Gallatin River watershed had 5.1 inches this year, 4.1 inches last year GALLATIN RIVER.

TENMILE CREEK. Four courses on Tenmile Creek had 3.2 inches this year, 3.1 inches a year ago and 4.2 inches 5.2 inches as the five-year average.

MARIAS RIVER. The water content of the snow on two courses on the Marias River watershed was 8.6 inches which is the same as the five-year average, but more than double the amount on these courses last year at this time. the five-year average.

February 1. These reports show that the water content of the snow was 3.8 inches this year, 3.4 inches a year ago YELLOWSTONE RIVER. Reports are available for only three courses on the Yellowstone River watershed for while the five-year average is 4.5 inches.

WYOMING

NORTH PLATUR. Ten snow courses on this drainage area averaged 33 inches snow depth, water content 7.6 inches. and density 23 percent. The present condition is approximately the same as for last year at this time. The two principal snow courses, Old Battle and North French Greek measured about 10 to 15 inches less in depth than last year with about the same water content as a year ago.

LARAMIE RIVER. For this watershed, on nine courses the snow depth averaged 19 inches, water content 4.5 inches, and density 24 percent. Last year at this time the average depth was 24 inches with a water content of 4.7 inches.

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WYOMING, Cont'd

Two courses on this drainage had an average snow depth of 45 inches, water content 12.2 inches, These courses last year averaged 31 inches of snow containing 4.7 inches of water. Present density 27 percent.

conditions are slightly above the 5-year average.

and that the Shoshone and Big Horn River watersheds are about normal. The density of the snow at present over Wyoming The average snow depth on four courses on the Bighorn was 38 inches, water content 10.3 inches, Last year these courses averaged 31 inches with a water content of 7.4 inches. Four new courses have been located on this drainage and reported this month for the first time. The present snow conditions based on the past five-year averages show that the North Platte and Laramie River watersheds are about 75 percent of normal areas is better than it was last year at this time.

COLORADO

COLORADO RIVER. Twenty courses on the Colorado River drainage above Grand Junction averaged 28 inches snow depth, 5.5 inches water content, 20 percent density. This is practically the condition that existed last year at

YAMPA RIVER. Four courses on the Yampa River averaged 35 inches snow depth, 7.8 inches water content, 22 percent WHITE RIVER, Two courses show snow depth 37 inches, water content 9.0 inches, density 24 percent. Last year density. For last year the snow depth averaged the same but contained 1 inch more water.

GUNNISON RIVER. Twelve courses on the Gunnison watershed averaged 42 inches, water content 10.7 inches, density percent; while for last year there was 30 inches of snow, water content 7.4 inches. the average snow depth was 31 inches, water content 7.9 inches.

DOLORES RIVER. On three courses the average snow depth was 36 inches, water content 8.2 inches, density percent, and for last year average snow depth was 24 inches, water content 6.2 inches.

SAN JUAN. Five courses on the San Juan drainage averaged 48 inches, water content 12.6 inches, density 26 percent.

year the depth was 26 inches, water content 6.6 inches.

The amount of snow on the headwaters of the Colorado, Yampa and White Rivers is below normal. Soil moisture conditions Generally, for the Colorado River drainage the conditions are better than a year ago, especially for the Gunnison streams in the southwest part of the state. The water content of the snow is in excess of the 5-year average.

SOUTH PLATTE RIVER, Three courses on the headwaters averaged 17 inches snow, 2.1 inches water content, density in the mountain areas and the irrigated valleys are good.

CACHE LA POUDRE RIVER. Seven courses show an average snow depth of 18 inches, water content 4.6 inches, percent, while for last year the snow depth was 12 inches, water content 1.7 inches.

BIG THOWPSON. Two courses on the Big Thompson averaged 34 inches snow depth, 7.9 inches water content, density density 25 percent. Last year the snow depth was 23 inches, water content 5.4 inches.

23 percent, while for last year those courses showed a depth of snow 37 inches, and a water content of 9.1 inches.

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COLORADO, Cont'd

Nine courses on the Arkansas River averaged 27 inches snow depth, 5.5 inches water content, The average for eight courses last year was 20 inches snow, 4.6 inches water content. ARKANSAS RIVER.

NEW MEXICO

Winter precipitagreater than normal and run-off has been exceptionally good from the Gila and Little Colorado watersheds. Storage tion on the watersheds of the Rio Grande, Gila, San Juan, Pecos and Canadian was considerably above normal, and in Conchas and El Vada Reservoirs on February 1 was about 30 percent greater than last year, but storage in the conditions during January have continued favorable. It is reported that soil moisture conditions have been un-Elephant Butte project reservoirs is only 64 percent of what it was last year. Heavy precipitation during the usually good and that water stored in the ground is considerably above normal. Winter stream flows have been The prospects for an ample water supply in New Mexico are unusually favorable at this time. winter has resulted in the accumulation of more than usual snow in the mountains.

RIO GRANDE. On the watershed of the Rio Grande in southern Colorado and northern New Mexico the average water content of the snow on 20 courses as of February 1 was 9.3 inches; last year at this time it was 4.7 inches, and for the four-year period during which observations have been taken is 6.8 inches.

The four-year average CANADIAN RIVER. There is only one course on the Canadian for which comparisons can be made. The water content of the snow on this course on February 1 was 6.0 inches; a year ago it was 2.9 inches. is 4,4 inches.

SAN JUAN and GILA RIVERS. Conditions are equally favorable on the San Juan and Gila watersheds. information regarding these streams is given in the Colorado and Arizona forecasts.

ARIZONA

above normal, and reservoir storage has greatly increased. Storage in the Salt River Valley Project reservoirs is 700,000 acre-feet more than it was on February 1 last year, and storage in the San Carlcs Reservoir 260,000 acre-Arizona was unusually heavy this year, the precipitation from October to January inclusive being nearly 4 inches The water supply outlook in Arizona at this time is the best in years. Winter precipitation in northern above normal. January precipitation was about one half inch above normal. Heavy general rains occurred over northern and eastern Arizona on January 7, and as a result soil is thoroughly saturated. Stream flow is much feet more than a year ago.

GILA RIVER. Above normal precipitation during the winter has resulted in a large accumulation of snow in the mountain areas on the watershed of the Gila and its tributaries. The average water content of the snow on six courses on the Gila in eastern Arizona and wastern New Mexico was 5.9 inches on February 1 this year; a year ago it was only 2.1 inches; and the four-year average for these courses is 3.6 inches.

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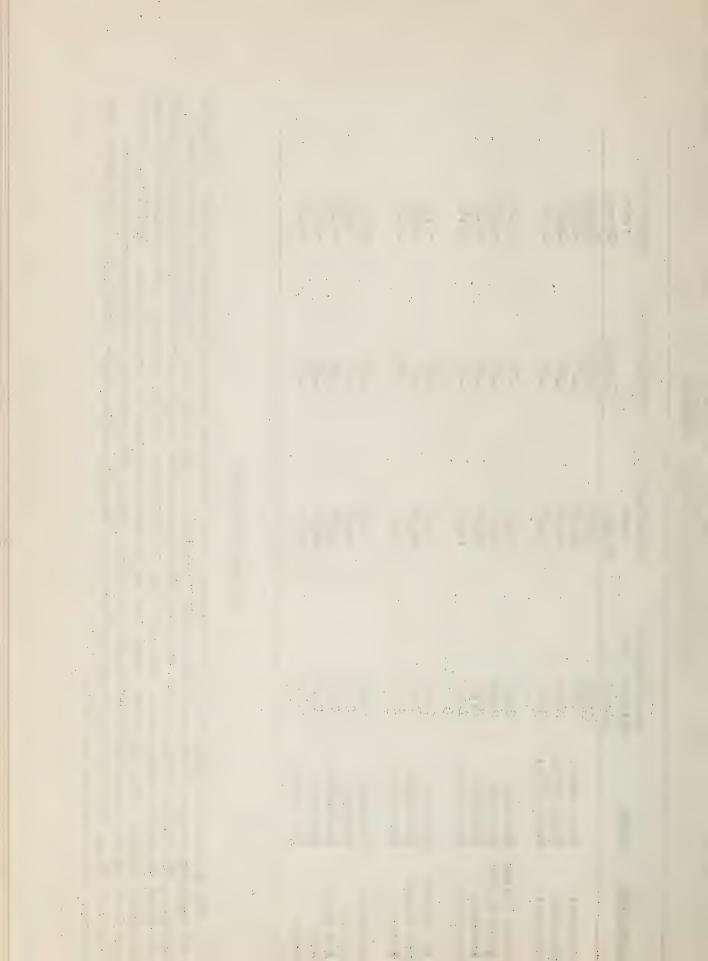
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WATERSHED	STATE	Precipitation October 1 to	Departure From	Precipitation	Departure from
		January 31	Normal	January	Normal
		Inches	Inches	Inches	Inches
Missouri	East. Mont.	2.84	+0.36	0.14	-0.39
Missouri	Cent. Mont.	2,48	99.0-	0.26	24.0-
Missouri	North, Wyo.	3.87	40. 1-	0.55	179.0
North Platte	Wyoming		-0.61	0,70	-0.17
South Platte	Colorado		-1.18	080	11.18
Arkansas	Colorado	2.69	-0.56	0.59	-0.02
Canadian	New Mexico	3.82	+1.13	0.52	+0.17
		•	٠		,
Rio Grande	Colorado	24.7	74.5+	1.84	± •61
Rio Grande	New Mexico	7.03	#5°0#	1.72	1,2.0+
Pecos	New Mexico	3.58	69.0+	62.0	+0.27
Colorado	Colorado	6.61	41.06	1,85	+0.35
Green	Wyoming	3.16	40.19	0,64	60.0
San Juan	New Mexico	6.07	45.8t	H 03	40.78
Gila	Arizona	8.68	476	66.1	6tt • 0+
Gila	New Mexico	5.48	+1.98	1.57	+0.83

GENERAL CONDITIONS

drainage, Wyoming are good, and for the Green River area in the western part of the atate are very good; for The snow cover at this time in the mountain areas of southern Colorado is better than last year and in the North Platte they are normal. Precipitation since October 1 was below normal over the South Platte and mountain areas. Stream flow in northern Colorado and Wyoming has been below normal, but in New Mexico and Conditions on the the northern section of the state is slightly less than it was a year ago. Conditions in the Big Horn San Juan and Gila drainages in New Mexico are above normal. Soil moisture conditions are good in the Arkansas drainage areas and above normal for the Colorado River and Rio Grande Basins. Arizona stream flow has been good.



SUMMARY OF FEBRUARY I, SHOW STITVETS AND COMPARISON OF DATA

PREVIOUS YEARS BY WATERSHEDS THAT OF WITH

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	19	Percent	22	72	23 26 27 27		25.	22	30	27	23	22	25	(27]	25	
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S S S S S S S S S S S S S S S S S S S	Five Year Avg.*	In	32.5	20.04	17.000		22.3	123	7, 62	21.0	29.0	25.0	23.2		54.9	18.5	7	shorter periods
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-6COLORADO RIVER WATERSHED
Summary of Federal and State Cooperative Snow Surveys
Issued February 10, 1941, at Fort Collins, Colo.

			700	TOTAL TOTAL TOTAL		Elev Notional	1-4	Snow Cor	Course Measurements	asurem	ents
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On adjacent drainage . Readings on original course

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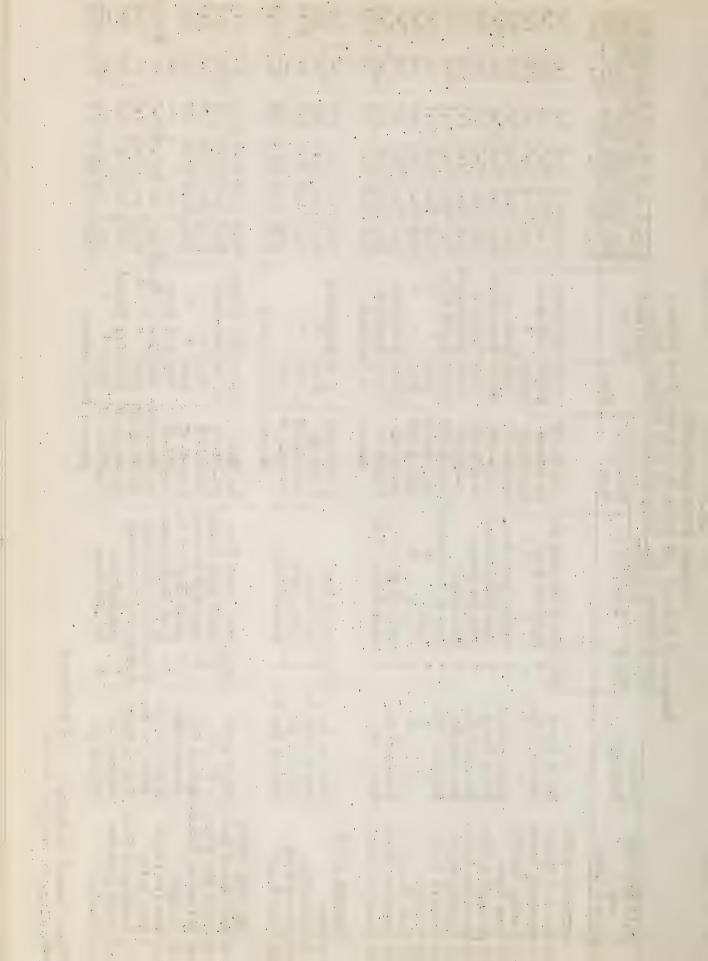
COLORADO RIVER WATERSHED

Summary of Federal and State Cooperative Snow Surveys Issued February 10, 1941, at Fort Collins, Colo.

Main Drainage Mo. Snow Course GUNNISON RIVER GUNNISON RIVER GUNNISON RIVER HE Marshall Creek HE Marshall Creek HE Poncha Greek* HE Park Cone 55 Rowshoe Mesa 55 Snowshoe Mesa 56 Trickle Divide 86 Trickle	Local Drainage State Locality Slate River Marshall Cr. Marshall Pass Riser Greck Snowshoe Cr. Mini.N.Gedare Mini.N.Gedare Mini.N.Gedare Mini.N.Gedare	State Locality Colo.3mi.N.Crested B. Marshall Pass " Haylor Park Res. " IOmi.N.Gedaredge " Iomi.N.Gedaredge " I5mi.S.Ourey " I3mi." " "	Description 22-135-86W 24-48N-6E 19-48N-7E 19-145N-7E 19-145N-7E 19-145N-7E 29-145N-7W 29-45N-7W 29-45N-7W 29-45N-7W 29-45N-7W 29-45N-7W 29-45N-7W	Elev. Forest 9000 Gunnison 10500 Gunnison 9700 Gunnison 10000 Grand Mesa 7500 Gunnison 9700 Grand Mesa 9700 Grand Mesa 9700 Grand Mesa	Teb. 1 Snow Course Meas Av. Snow Depth Av. Water Avg. 1940 1941 Avg. 19 In. In. In. In. In. 35.4 28.7 39.7 7.1 5 35.0 28.3 34.5 7.1 7 25.5 24.1 33.4 6.5 7 25.5 24.1 33.4 6.5 7 27.6 26.5 22.3 7.1 9 29.4 26.1 37.4 7.3 7 43.7 29.9 57.5 11.7 7 50.4 42.3 58.6 13.0 9	ter Content 1940 1941 1940 1941 In. In. 5.4 7.9 7.1 7.0 7.1 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0
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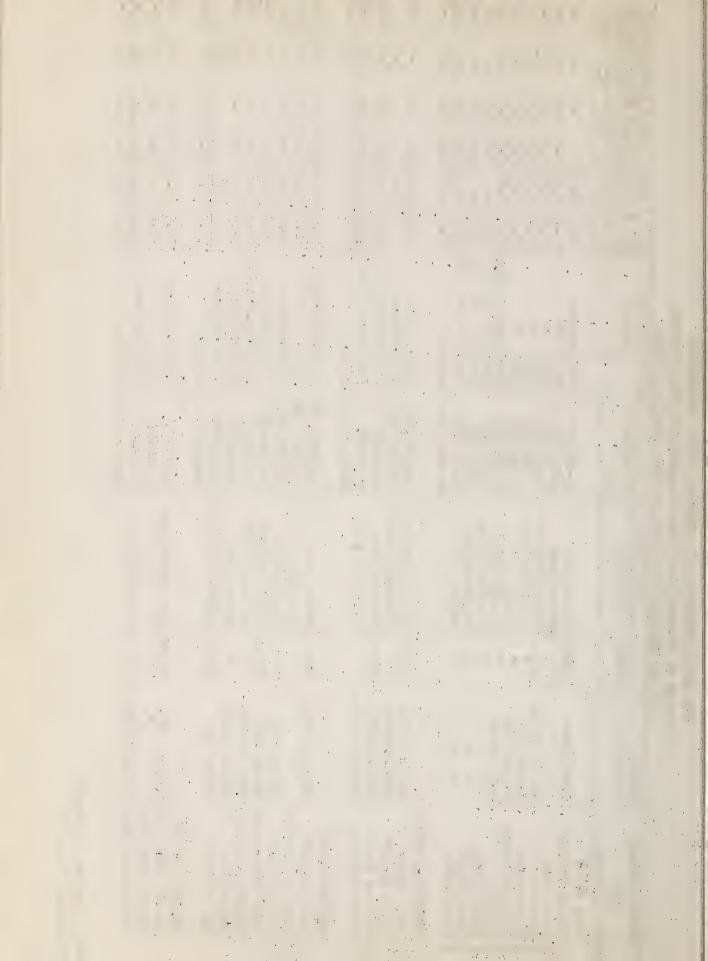
*Readings on original course.



COLORADO, MISSOURI AND ARKANSAS RIVER WATERSHEDS Summary of Federal and State Coopeerative Snow Surveys Issued February 10, 1941 at Fort Collins, Colo.

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16	, -		Mont.	W.Yel	31-135-5里	6700 Gallatin	25.8 1.7	TC /		7.7
	Twenty-one Mile*	Greyling Cr.	= =	Hebgen Dam	22-118-3国	Gallatin	33.9 24			7.1
	Valley View	Denny Cr.	Idaho		7-15N-14E Average for	6500 Targhee Drainage	39.3 25	5 40.8 10.5		10.7
	GALLATIN RIVER Wystic Lake No.1	Bozeman Cr.	Monte	Mont. 12mi.SE.Bozoman	31-38-7国	6600 Gallatin	61-	8 18.0 lt		
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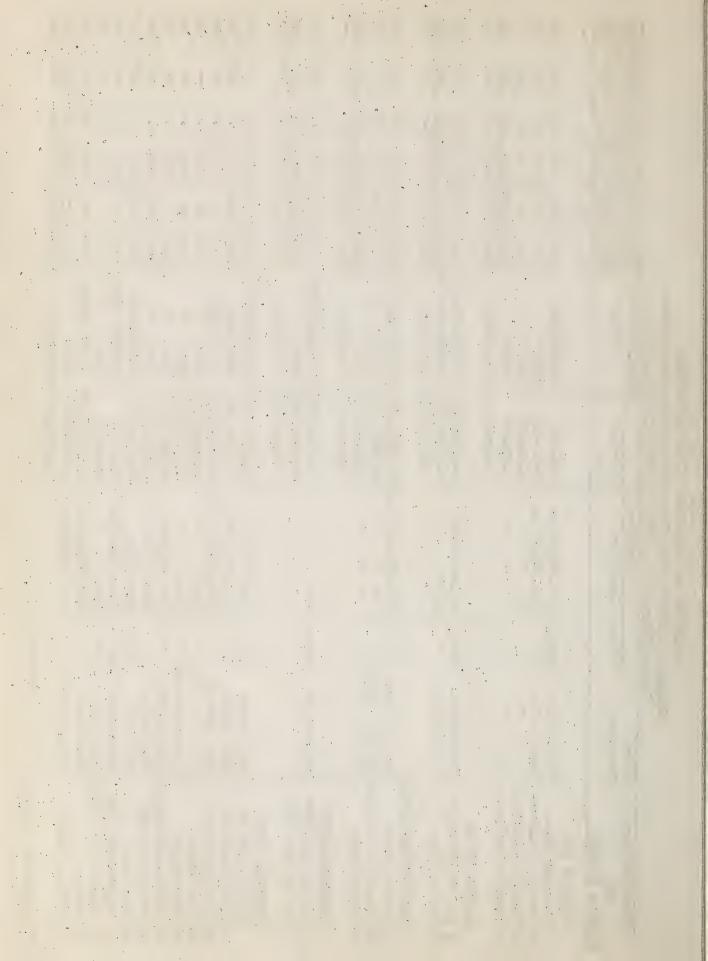
*On adjacent drainage



MISSOURI AND ARKANSAS RIVER WATERSHEDS
Summary of Federal and State Cooperative Snow Surveys

	F	Issued			at Fort Collins	-		- 1			
	Main Drainage	Local		Locati on		Elev. National	Feb.	1 Snow	Course N	Measuremen	ments
	and	Drainage	State	Local ity	Descrip-	Forest	V. S		epth Av. Water		Content
No	No.Snow Course				tion		•	1940 19	1941 Avg.	1940	1941
	TENMILE CR.							In. In		In.	In.
9	Chessman Res.	Tennile Cr.	Mont.		2-8N-5W	Iel ena			0	1.6	2.1
;;				S	13-8N-6W	=			0	2.4	2.5
42	Tenmile		=	=	13-8N-6W	=			9.	3.6	7.5
43	Tenmile Cr.Upper	=	=	# #	9-8N-5W		26.6	CUI	.02 6.1	10-17	4.8
					Average fo	or Drainage			Co	3.1	3.2
1	MARIAS RIVER							-			
~ <u>e</u>	Desert Mountain*	Cutbend Cr.	Mont.	4mi.S.Belton Symmit	24-31N-19W	5600Flathead	25.3	18.0 32	0° 2 - 0°	† ° †	0,1
					AVERAGE F	i	700	15.0	10	2	X
	YELLOWSTONE RIVER				1						0
3	Lunine Creek	Lunine Creek	Mont	11mi.SE.Gardiner	Why of the thing	J. Nat. P	0.00			7 2	4.2
4	Blacktail Deer Cr. Blk. Tail D. Cr.	Blk. Tail D.Cr.	god god		144 9NJ.10 6W	=======================================	23.7	17.0 2	23.7 5.4	100	7, 7
742	Beaver Dams	=======================================	=	=	411. 911. 10. 6W	=======================================	. 12	71, 5		0	2
					Average fo	9999	10	180		7	1 100
	SHOSHONE RIVER)			•	
50	Brooks Lake #7*	Shoshone R.	Mont.	Brooks Lake	23-44N-110W	9200Washakie	10	1°		6.8	10.6
`	Brooks Lake #1*	=	-	=	25-44N-110W	0006		37.0 146	46.1 14.2	8	13.9
					Average fo	r Drainage	10.	7.		7.7	1 .
	BIGHORN RIVER				,						
	Brooks Lake #1	Wind River	Wyo	rooks Lake	25-44N-110W	03		0.	7	8,1	13.9
12	Togwotee Pass	Wind River	-	ĽΩ	29-44N-110W	9600Teton	-		-	7.9	13.3
145		Popo Agie R.	=	3mi.SW.Lander	3-31N-101W	m	and the same	1	日	. !	。 の に 日
746	Blue Rid	= = = = = = = = = = = = = = = = = = = =	=	=	23-31N-101W	9500	16.1	1		į	3.2
74	South Pass	L.Popo Agie R.	=	19mi. " "	13-30N-101W	0006	24.5	12		1	5.6
4.9	Sheridan Cr. R.S. #2Sheridan Cr.	Sheridan Cr.	=	W. Dubois	3-42N-109W	7500 "	18.7	1		}	3.9
20	Brooks Lake #3	Wind River		s Lake	23-44N-110W	9200		10		6.8	10.6
7		Goose Cr.	Wyo.	ake	11-53N-87W	8800Bighorn		10.8 18		3.0	3.4
K	St.Lawrence R.S.	St.Lawrence Cr		W.Lander	26-1N-4W	9000 Shos. I.R.	10.3			. !	1.9
52	Mosquito Park R.S.	Trout Creek		18mi. " "	23-25-3W	11 11	11.9			1	2,0
53		Wind River	=	9mi.NW Dubois	27-42N-108W	8750Washakie	19.2	10		1	4.3
54	T-Cross Ranch	Horse Creek	=	12mi.N.Dubois	1-43N-107W	davin (com	0	,	12.0 2.0	1	20
					Average fo	or Drainage	0.6	27.1 38	_	7.9	10.3
*	*On adiacont drainage	B I Estimated	pted								

E - Estimated *On adjacent drainage

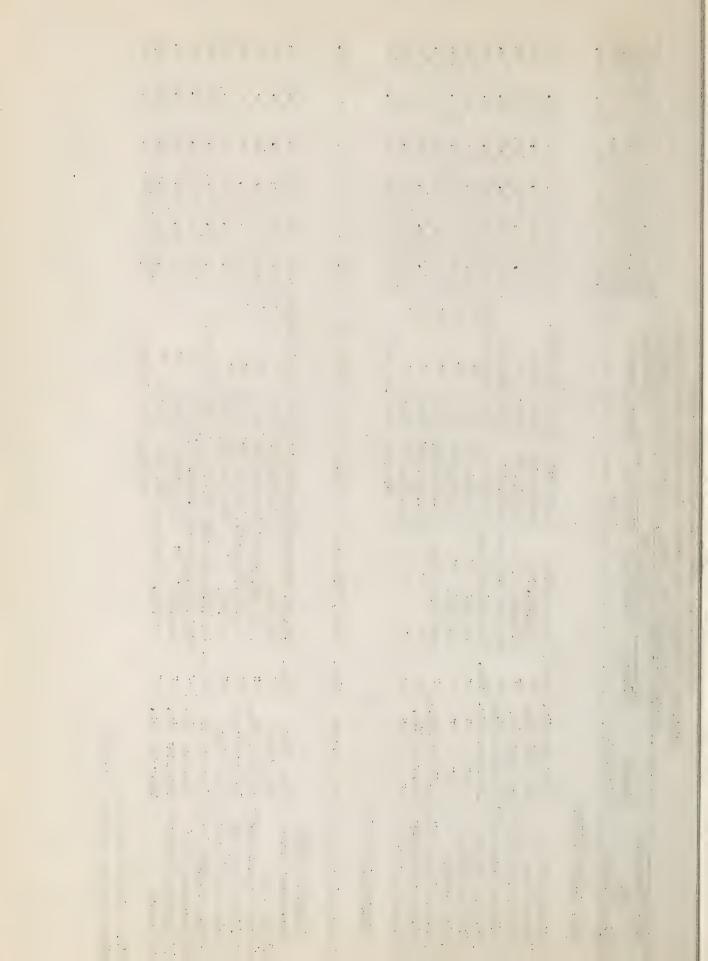


MISSOURI AND ARKANSAS RIVER WATERSHEDS

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Measurements	Con to	L		t i	41 FU FU DU DU O
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National	Forest		Routt Routt Arapaho MedicineBow """" """" """" """" """ """ "	Washakie	MedicineBow """" """" Rosevelt """ """ Rosevelt """ "" "" "" "" "" "" "" ""
	Elev.		10200 9200 9200 9500 8200 9800 10200 9400 8400	0006	10200 9200 8700 8500 9500 10200 10200 for
	Descrip-		2-6N-76W 24-5N-78W 21-5N-82W 1-4N-78W 21-14N-85W 27-14N-85W 27-14N-85W 27-14N-85W 27-16N-80W 30-16N-81W 30-16N-81W	19-30N-100W	
Location	Locality		Cameron Pass 7mi.SE.Rand Rbt.Ears Pass Willow Gr.Pass 7mi.SW.Encupunt 10mi.W. " 12mi.W. " 6ent/Saratoga	20mi.SW.Lander	7mi.NW.Cntennial11-16N-79W Fox Park 10mi.SE.Laramie35-15N-72W 3mi.NW.Cnternial29-16N-78W 5mi.NW. "24-16N-79W 4mi.N.Chambers17-8N-75W 8mi.SW." 6-9N-74W 8mi.SW." Averag
	State		Golo.	Wyo.	Wyo.
201	Local	0	Michigan Gr. Illinois Gr. Grizzly Gr. Illinois Gr. Encmpmnt Gr. " " " N.French Gr. Barrett Gr.	Rock, Greek	Nash Fork Fox Creek Soldier Cr. Libby Creek Nash Fork Laramie R. Deadman Cr. LaGarde Cr.
Wain Drainage		RIVER	Cameron Pass Park View Columbine Lodge Willow Greek P.* Bottle Greek Webber Spring Old Battle North French Gr. N.Barrett Gr.#2 Ryan Park #2	SWEETWATER RIVER 29 Grannier Weadows Rock, Creek	LARAMIE RIVER Brooklyn Lake Fox Park Pole Mountain#2* Libby Lodge #2 Hairpin Turn #2 W.Port.G-P.Tunnel Deadman Hill* Beadman Hill*
	1	4	4789786786	29	88 88 88 88

*On adjacent drainage



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1	M. S. Carlotte	Terri	repra	0,	ort Collins	Col				1			
	aseure or urem	rocar				Elev.	Mational	Feb.	1 Snow	Course	se Me	Measurements	en ts
1	and	Drainage	State	Locality	Descrip-	teri en	Forest	Av. S	now De	epth A	V.Wat	Av. Snow Depth Av. Water Content	tent
No	No.Snow Course				tion		-	AVSO	194011	Avg. 1940 1941 Avg.	V P.	1940	1941
	SOUTH PLATTE RIVER	cd						In,	In. I	In. I		In	In.
17	Housier Pass	S.Platte R.	Colo.		13-85-78W 111400		Pike	24.8	16.5		ή· †	7.0	7.0
15	Fairplay	=======================================	=	Fairplay	33-9S-77W	10000	=	1,07	4.7 0.0 9.8) N
83	Jefferson Cr.#2	Jefferson Cr.	=	5mi.NW.Jefferson	14-75-76W 120100	10100	-	18.6	18.91		7.0	2 0	
	CROW CREEKS	n van der verscher			Average for Drainage	or Dra		16.0	11.8	ł		107	2,1
34	34 Pole Mountain #2	Crow Creek	Wy.o.	10mi.SE.Laranie	35-15N-72W	0018	8700 MedicineBow114.5	14.5	13.4 1	10.1	3.1	2.57	2.7
	POUDRE RIVER								un - et ellipsimpalari		,		
Н	Cameron Pass	Joe Wright Cr. Colo.	Colo.	Cameron Pass		10300	Roosevelt	39.3	56.1 2	5.00	11.0	o T	80
N	Chambers Lake	Poudre River	= :	bers Lake	6-7N-75W	9000	=	15.7	18.3	007	1,01	1,2	3.5
2	Big South		=	Zmi.E.Chambers L.	33-8M-75W	8600	==	5.7	00	305	1.5	7.0	2
2		W.Poudre R.	=	10mi.W.R. Feather	26-10N-75W1.0200	10200	=	27.8	24.8 2	5	200	TC.	й. 6
65		Big S.Poudre	=	lmi.SW.Wilner P.	8-5N-75W		Ry . Mpn . N. P.	17.5	36.2 2	4.5	3.0	7.8	η• /
63	Hour Glass Lake	L.S. Poudre	=	Pi		9500	Roosevelt	16.7	17.61	1,5	7.4	7.2	2
7.1	Deadman Hill#2	W.Poudre R.	=	Smi.SW.R.Feather		10200		23.9 21.5 1	1.5	8,21	50.4	7	3.7
	BIG THOMPSON				Average fo	for Drainage 		25.2	23.3 1	700	6.3	7.0	4.6
65	Lake Irene*	Big Thompson R.Colo.	Co10.	Jmi,SW.Wilner P.		10600	Ry Mtn N.P	7,71	36.2 2	7	13.0	17.8	7.4
29	Fall River	Foll River	=	12mi.W.Estes P.			п п п 37.4	37 .4		34°0 1	70	\ \times \	7
95	Hidden Valley	No. ZHidden Val. Cr.	=	•	23-5N-74W	9550 "	и и и			0	4.2	1	7,2
	Control of the contro				Average for Drainage	or Dra			37.1 3	34.2 1	•	9.1	7.9
4	41 Wild Basin	N.St.Vrain R. Colo. 5mi.	Colo.	5mi.W.Allens P.	Mt12-M2-t12	0000	24-311-714W 10000 Ry .Mtn .N .P .24 .9 20 .4 19 .4	21.9			5.3	0 +	Q Q
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7		S.Boulder Cr.	Golo.	East Portal	2-25-714W	01100	Roosevelt	Q L	7.8		C		7. [
8	CJ	N.Boulder Cr.		5mi .S	28-1N-73W 10300			33.3 32.5 20.5	32.5	- 1	100	0	4.3
-					Average for Drainage	or Dra		27.4	20.02		5.6	dename e e	3.0

*On adjacent Drainage

A.W.

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1940	In. 5.2	WOLLWWOR!	8 1 8
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Snow 1940	In.	119 210 21 21 21 21 21 21 21 21 21 21 21 21 21	11.00
Avg.	In.		138
Forest	Arapaho	Cochetor " " Maxwell SanCrist Cochetor Cochetor	9500 Carson 18.5 11.0 26.0 9200 Off Forest 19.6 19.6 Drainage
	10100		
Descrip- tion	27-4s-76W	21-85-80W 22-115-82W 24-48N-6E 19-48N-7E 37.2N105.2W 22-285-70W 23-115-81W 2-85-79W 16-49N-6E Average for	8-28N-15E 25-24N-16E Average for
State Locality		see Pass Twin Lakes 11 Pass W Cr. Pass Pass Twin L. t Pass	N.Mex.7mi.SE.Red R. 3mi.E.Black I.
State	6010.	000000000000000000000000000000000000000	N.Mex.
Drainage	Clear Creek	Tennessee Gr. Lake Greek Poncha Gr. Whiskey Gr. Cuchara Gr. Lake Greek E.Fork Ark.R.	Moreno Creek Ocate Creek
0	CLEAR CREEK	ARKANSAS KIVEK Tennessee Pass Twin Lakes Tun. Marshall Greek* Poncha Greek #2 Whiskey Greek #2 LaVeta Pass#2* Four Wile Park#2 Fremont Pass #2 Monarch Pass	CANADIAN 9 Hematite Park 10 Ocate Mesa
	Drainage State Locality Descript Forest Av. Snow Depth Av. Water Control Avg. 1940 1941 Avg. 1940	Drainage State Locality Descrip- Forest Av. Snow Depth Av. Water Cont tion tion In. In. In. In. In. In. In. In. In. In	Drainage State Locality Descrip- Forest Av. Snow Depth Av.Water Consist Av. Snow Depth Av.Water Consist Colo. Colo.

*On adjacent drainage

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RIO GRANDE WATERSHED

Summary of Federal and State Cooperative Snow Surveys Issued February 10, 1941, at Fort Collins, Colo.

Av. Snow Depth Av. Water Content Snow Course Measurements 000 to 1000 22 10.1 Avg. 1940 1941 Avg. 15.7 14.3 71.6 62.0 25.8 43.0 (35.4 14.9 19.2 11.8 21.2 16.7 San CristoGr 22.2 15.2 21.1 17.1 14.6 31.2 18.5 11.0 8 20.1 12.1 12.5 70.45 Feb.1 24.5 54.3 21.0 33.1 22.7 20.1 23.9 Rio Grande 49.4 SanCristoGr28.7 1 Rio Grande Santa Fe Santa Fe Elev. National Carson Carson Carson Forest 8500 9500 0000 9500 9100 9500 0006 0096 9300 9700 0026 8200 7900 0000 0026 1500 00001 0006 9050 37.2N105.2W 29-28N-15E 13-29N-72W 10-25N-15E 12-18N-10E 23-22N-13E 22-285-70W 34-1911-12 25-33N-6E 30-3711日 17-32N-5E. 8-28M-15E I6-28N-7E 15-36N-5E WH-NIH-IS 13-40N-4W 8-41N-2W 3-1811-4里 126N-6E 6-27N-5E Descripti on 6mi .N.Ft.Garland LOmi.SE.ParkView Santa Maria Res. 10mi .NE SantaFe Smi .SE. RedRiver Rio Grande Res. Smi.NE.Can,jilon lmi.S.Silver L. hmi SE Hopewell 12mi .E. SanLuis RioGrande Res. 10mi.W.Mogote Location mi .SE .Red R. Wolf Cr.Pass Cumbres Pass 5mi.NW.Bland Lmi .N. Cowles mi.W.Holman LaVeta Pass Summitville 14mi.E.Taos Locality State Colo. Panchuela Cr. Rio En Medio SanCristoCr. Wightman Cr. Canjilon Cr. Los Pinos R. Rio Nutrias Agua Piedra Big Ute Cr. Rio de Taos N.Clear Cr. Rio Grande Culebra R. Upper Rio GrandeRio Grande Conejos R. Rock Creek Wolf Creek Pass South Fork Alamosa R. Red River Jemez Cr. Red River Drainage Local LaVeta Pass #2 Hematite Park* Main Drainage River Springs Cumbres Pass Silver Lakes Fort Garland No Snow Course Summitville Taos Canyon 4 Aspen Grove Rio Nutrias Santa Maria RIO GRANDE 12 Tres Ritos 15 Pay Role 16 Jicarilla, Ute Ridge Panchuela Red River Lee Ranch Canjilon Culebra

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Off Forest 28.6

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JicarillaR.

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Rock Lake Cr.

Willow Creek

Chama Divide

Chamita

Chamita Cr.

omi .W. Chama

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36.9N-106.7W 36.9N-106.7W

*On adjacent drainage

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